



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Calvert et al.	§      Examiner: Saxena, Akash
Filed: August 21, 2001	§      Art Unit: 2128 §
Serial No.: 09/934,320	§      Attorney Docket No.: PM 99.061 §
Title: METHOD FOR CONSTRUCTING 3-D GEOLOGIC MODELS BY COMBINING MULTIPLE FREQUENCY PASSBANDS	§      Confirmation No.: 7470 §

## AFFIDAVIT

STATE OF TEXAS  
COUNTY OF HARRIS

Before me, the undersigned authority, personally appeared Craig S. Calvert, who, being by me duly sworn, deposed as follows:

1. I, Craig S. Calvert, am an employee of ExxonMobil Upstream Research Company and a named inventor on the above-referenced Application.
  2. I have a B.S. in Environmental Science from the University of Rhode Island, a M.S. in Soil Science from North Carolina State University and a PhD in Soil Science from Texas A&M University. For nearly 25 years, I have conducted research in areas of reservoir characterization, geophysical interpretation and reservoir modeling. I currently lead ExxonMobil's research efforts on integrating geophysical interpretations into reservoir models.
  3. I am a named inventor on U. S. Patent Nos. 5,691,958, 5,808,966 and 6,480,790. I have recently published on the method cited in this application in both The Leading Edge (May 2004, V. 23, No. 5, pp.466-470) and the SPE Proceedings (September 2004, paper 91054). I have also presented papers on this method at Stanford University in 2003 (invited speaker) and the Geophysical Society of London in 2005.
  4. I believe that I am an expert in the field of reservoir modeling.
  5. I have read the "Remarks" section of the response to the Office Action dated on January 27, 2006, a copy of which section is attached hereto. I agree with all arguments and opinions expressed therein associated with the assessments regarding equivalence of the velocity model with the frequency passband model and all interpretations of what the prior art teaches or suggests.

*Craig S. Calvert* *Jan 27, 2006*  
Craig S. Calvert **Date**

Sworn to and subscribed before me this 27<sup>th</sup> day of January, 2006.

*Monica Stansberry*  
Monica Stansberry, Notary Public, State of Texas

